CYBERNET iONE-GX45 Series
User Guide

FCC-B Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the measures listed below.

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Notice 1 The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Notice 2 Shielded interface cables and A.C. power cord, if any, must be used in order to comply with the emission limits.

Trademarks

All trademarks are the properties of their respective owners.
Intel® and Pentium® are registered trademarks of Intel Corporation.
PS/2 and OS®/2 are registered trademarks of International Business Machines Corporation. Windows® 7/Vista/XP/NT/2000/98/95 are registered trademarks of Microsoft Corporation. Netware® is a registered trademark of Novell, Inc. Award® is a registered trademark of Phoenix Technologies Ltd. AMI® is a registered trademark of American Megatrends Inc

Safety Instructions

1. Always read the safety instructions carefully.
2. Keep this equipment away from humidity.
3. Lay this equipment on a reliable flat surface before setting it up.
4. The openings on the enclosure are for air convection hence protect the equipment from overheating. DO NOT COVER THE OPENINGS.
5. Confirm the voltage of the power source and adjust accordingly to 110/220V before connecting the equipment to the power inlet.
6. Place the power cord in such a way that it cannot be stepped on. Do not place anything over the power cord.
7. Always unplug the Power Cord before inserting any add-on card or module.
8. All cautions and warnings on the equipment should be noted.
9. Never pour any liquid into the opening. This will cause damage and/or electrical shock.
10. Do not disable the protective grounding pin from the plug. The equipment must be connected to a grounded main socket/outlet.
11. The Optical Storage devices are classified as Class 1 Laser products. Use of controls or adjustments or performance of procedures other than those specified is prohibited.
12. Do not touch the Laser lens inside the optical storage drive.
13. If any of the following situations arise, have the equipment checked by authorized service personnel:
    - The power cord or plug is damaged.
    - Liquid has penetrated into the equipment.
    - The equipment has been exposed to moisture.
    - The equipment has not worked well or you cannot get it working according to the User's Guide.
    - The equipment has been dropped and damaged.
    - The equipment has obvious signs of breakage.

DO NOT LEAVE THIS EQUIPMENT IN AN UNCONDITIONED ENVIRONMENT WITH A STORAGE TEMPERATURE ABOVE 50° C (122°F). IT MAY DAMAGE THE EQUIPMENT.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer.

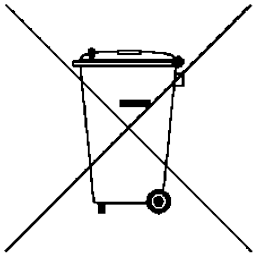
WEEE Statement

(Waste Electrical and Electronic Equipment)

The WEEE directive places an obligation on EU-based manufacturers, distributors, retailers and importers to take-back electronics products at the end of their useful life. A sister Directive, ROHS (Restriction of Hazardous Substances) compliments the WEEE Directive by banning the presence of specific hazardous substances in the products at the design phase. The WEEE Directive covers products imported into the EU as of August 13, 2005. EU-based manufacturers, distributors, retailers and importers are obliged to finance the costs of recovery from municipal collection points, reuse, and recycling of specified percentages per the WEEE requirements.

Instructions for disposal of WEEE by Users in the European Union

The symbol shown below is on the product or on its packaging, which indicates that this product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.



Cybernet's Recycling Program
Helping Save our Environment
Send us your old Computer and if it has monetary value we'll apply that toward a purchase of a new computer!
If your computer doesn't have monetary value, we'll recycle it responsibly.
Step 1: log-on to www.cybernetman.com
Step 2: submit a request for an RMA number
Step 3: we will schedule a pre-paid FedEx pick-up at no cost to you
Go Green
Please call 888-834-4577 for more details
CYBERNET
Space Saving Technology
5 Holland, Building 201, Irvine, CA 92618

TABLE OF CONTENTS

FCC-B Radio Frequency Interference Statement ..... *i*

Trademarks ..... *i*

Safety Instructions ..... *ii*

WEEE Statement ..... *iii*

Introduction *1*

iONE-GX45 Series Specifications *1*

Processor Support **1**

Chipset **1**

Memory Support **1**

Networking **1**

Audio **1**

Hard Disk Drive **1**

Mounting **1**

LCD Panel **2**

Expansion Slots **2**

Front Lower Right Bezel **2**

Right Side Bezel **2**

Left Side Bezel **2**

Bottom I/O Panel **2**

Power Supply **2**

Dimensions **2**

iONE-GX45 Series Overview *3*

On Screen Display Buttons **6**

On Screen Display Usage **7**

On Screen Display Icons **7**

System Assembly *11*

Necessary Tools **11**

Orientation of Key Parts **12**

iONE-GX45 Disassembly **13**

Installing the CPU **14**

Installing the CPU Heat Sink **15**

Installing the Memory Module DDR3 SO-DIMM **16**

Installing the Hard Disk Drive **17**

Installing the Optical Disk Drive 18
Installing the Mini-PCI Card (Optional).....20
Installing the Mini-PCIe Card (Optional).....21
Installing the Cover.....22

Figures

Figure 1: Front View with Optional Webcam 3
Figure 2: Left side view with Optical Drive 4
Figure 3: Power Button and USB Ports..... 5
Figure 4: Touch Panel..... 5
Figure 5: IrDA Receiver for TV Tuner 5
Figure 6: Front Bezel HDD & LAN LEDs……..6
Figure 7: Back view..... 8
Figure 8: Bottom Panel I/O Ports 8
Figure 9: CPU Heat Sink Ventilation Fan..... 9
Figure 10: System Ventilation, System Ventilation and Stand..... 9
Figure 11:..... 12
System Fan and Ventilation..... 12
HDD and Optical Drive 12
Heat Sink Fan, Memory Modules, Mini-PCIe and Touch Panel Control. 12
Figure 12: Open system 13

Introduction

Congratulations for purchasing the iONE-GX45. The iONE-GX45 Series is your best Slim LCD PC choice. With the fantastic appearance and small form factor, it can easily be set anywhere. The feature packed platform also gives you an exciting PC experience.

iONE-GX45 Series Specifications

Processor Support

Intel® Core™ 2 Duo and Core™ 2 Quad @ 1333MHz FSB in the LGA775 package up to 95W.

Chipset

Eaglelake: Intel® G45 chipset
Intel® ICH10 chipset

Memory Support

DDR3 800/1066/1333 MHz SO-DIMM SDRAM (Un-buffered Non-ECC)
2 DDR3 1333 MHz SO-DIMM slots (4GB Max)

Networking

Supports PCI Express LAN 10/100/1000 Fast Ethernet by Realtek RTL8111DL

Audio

2 internal speakers with 78dB+/-3dB @ 3W, 1 mic.
HD Audio Codec Realtek® AL889
Flexible 10-channel audio with jack sensing
Compliant with Azalia 1.0 Spec

Hard Disk Drive

One 3.5” SATA Hard Disk Drive - Any Capacity
Supports Ultra DMA 66/100 mode

Mounting

7 mounting holes for motherboard.

Swivel Stand

System Base rotates 60 degrees.

LCD Panel

17/19" TFT LCD panel

Expansion Slots

2 mini-PCIe
1 mini PCI

Front Lower Right Bezel

On Screen Display Buttons
Volume Adjust
Brightness Adjust
Contrast Adjust
Mute/Exit
Menu/Enter

Right Side Bezel

1 power button
2 USB 2.0 ports (for mouse and keyboard)

Left Side Bezel

1 optical disk drive – 2.5” slim

Bottom I/O Panel

1 DC/IN port
2 Serial ports
1 DVI-I port
1 LAN RJ-45 jack
4 USB 2.0 ports
3 Audio jacks – Line in, Line Out and Mic
4 TV Tuner ports - - Optional with TV Tuner (COAX Cable In, RCA Composite Video In, Audio Left & Audio Right)
1 CMOS clear button
1 Reset button

Power Supply

180 Watt Power Adapter, AC Input: 100~240V AC, 2.5A, 50-60Hz
DC Output: 12V, 15.0A or 19V, 9.5A

Dimensions

47.5cm (H) x 43cm (W) x 25.5cm (D) (with stand)

iONE-GX45 Series Overview

Figure 1: Front View with Optional Webcam

Figure 2: Left side view with Optical Drive

Figure 3: Power Button and USB Ports

Figure 4: Touch Panel

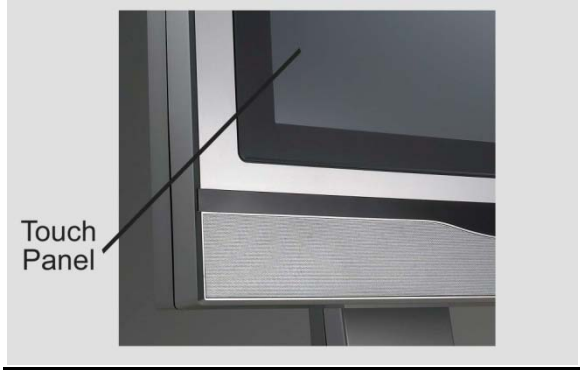
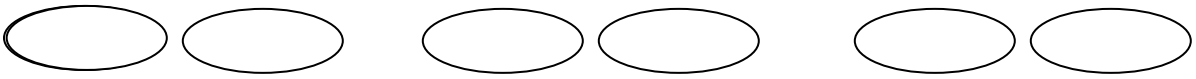


Figure 5: IrDA Receiver for TV Tuner

Figure 6: Front Bezel HDD & LAN LEDs

On Screen Display Buttons

There are six buttons on the lower right bezel of the screen. From left to right they are:



Volume - Press to decrease volume.

Volume + Press to increase volume.

Brightness- Press first to select Brightness adjustment. Press again to decrease brightness. Press Contrast + to increase brightness. Brightness can also be adjusted in Menu Mode.

Contrast + Press first to select Contrast adjustment. Press again to increase contrast. Press Brightness – to decrease contrast. Contrast can also be adjusted in Menu Mode.

Mute/Exit Press once to toggle Mute On or Off.
Also functions as Exit button in the Menu Mode.

Menu/Enter Press once to get to On-Screen display Mode to allow various adjustments as listed below.
Also functions as the Enter or Select button in Menu Mode.

On Screen Display Usage

When the Menu button is pressed, the on-screen display appears as pictured above. When in Menu Mode you can move to the various icons with the – (left) or + (right) button. When you are at the icon you wish to adjust, press Menu again (Enter) to change the color of the icon and then toggle your desired adjustment by again pressing either – (left) or + (right). The screen will exit automatically in a matter of seconds if no selection is made.

On Screen Display Icons

The Icons are as follows:

At the Top:

Contrast	Select to toggle greater or lesser contrast.
Brightness	Select to toggle greater or lesser brightness.

On the Right:

Globe	Select to toggle through the languages offered.
C2	Select to adjust the appearance of the screen to “Cool”.
C1	Select to adjust the appearance of the screen to “Warm”.

On the Left:

R	Select to adjust “Red”
G	Select to adjust “Green”
B	Select to adjust “Blue”

At the Bottom:

INF	OSD Firmware EEPROM version information.
Exit	Select to Exit the On Screen Display (Will exit automatically if untouched).
R→	Select to Reset all LCD Display settings.

Figure 7: Back view

Figure 8: Bottom Panel I/O Ports

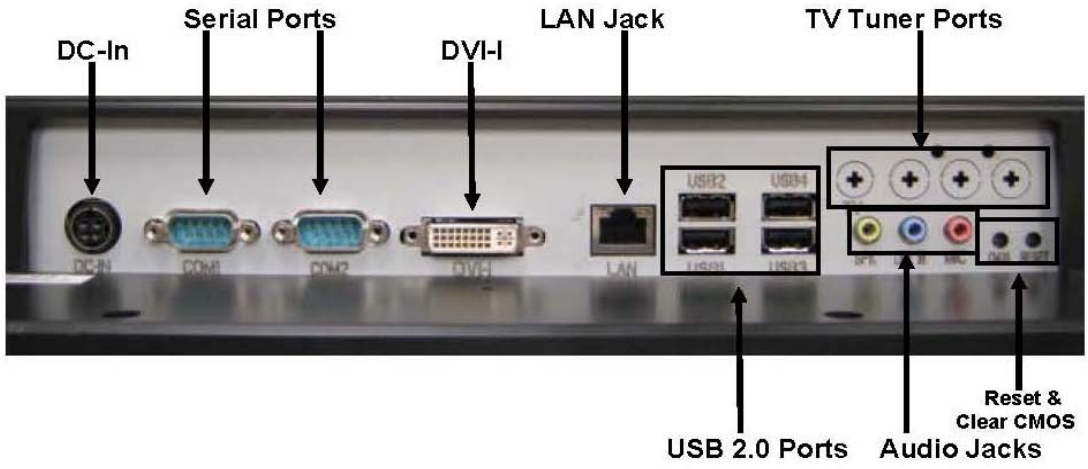


Figure 9: CPU Heat Sink Ventilation Fan

Figure 10: System Ventilation Fan, System Ventilation and Stand

System Assembly

This chapter provides system assembly information and procedures. While performing any installation, use a grounded wrist strap before handling computer components and carefully follow all installation procedures. Static electricity may damage the components.

This chapter will include instructions for how to install CPU, heat sink, memory modules, hard disk drive (HDD), optical disk drive (ODD), mini-PCI card, mini-PCIE card and IrDA module.

Necessary Tools

A Phillips screwdriver can be used to do most of the installation. One with a magnetic head is recommended. Applied maximum torque is 5kg.

Pliers can be used as an auxiliary tool to connect some connectors or cables.

Forceps/tweezers can be used to pick up tiny screws or set up the jumpers.

Rubber gloves can prevent injury from static charge.

Electric screwdriver can be used to secure all screws more quickly.

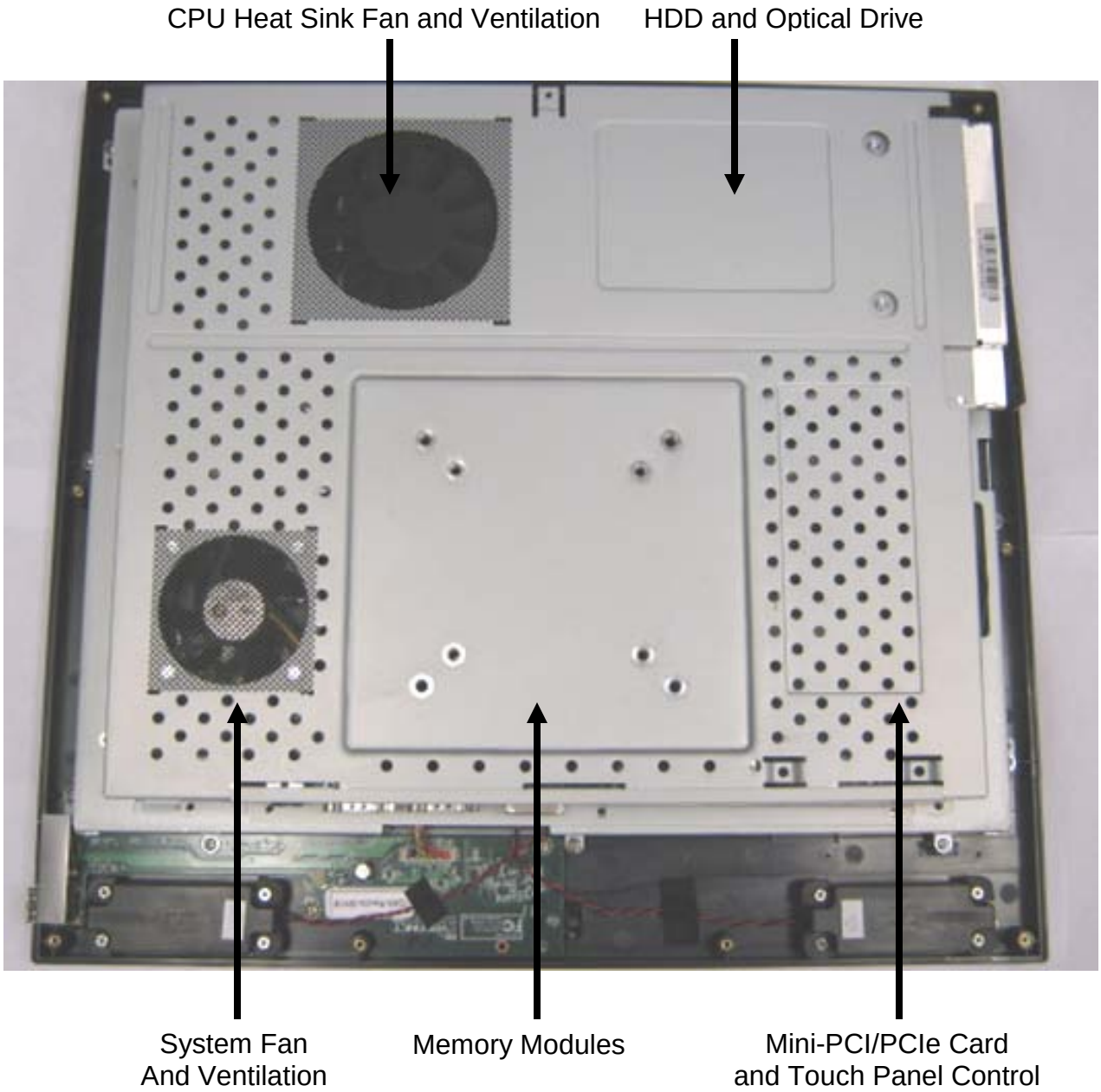
Orientation of Key Parts

Figure 11:

System Fan and Ventilation

HDD and Optical Drive

CPU Heat Sink Fan, Memory Modules, Mini-PCIe and Touch Panel Control.



iONE-GX45 Disassembly

ORIENTATION: Presumes the top of the iONE is away from you and the bottom or I/O controller board is nearest you.

1. Place the iONE face down on a padded surface.

2. Remove the four screws from the base plate that attaches the stand to the LCD supporting the base while removing the last screw.

3. Remove the ten back bezel screws.

4. Carefully remove the back bezel and set aside.

5. Then remove the metal EMI shield by first removing the I/O cover by removing the three screws on the bottom and two screws on the face. Lift the plate out and up and set aside.

6. Remove the remaining eleven screws around the metal shield covering the motherboard.

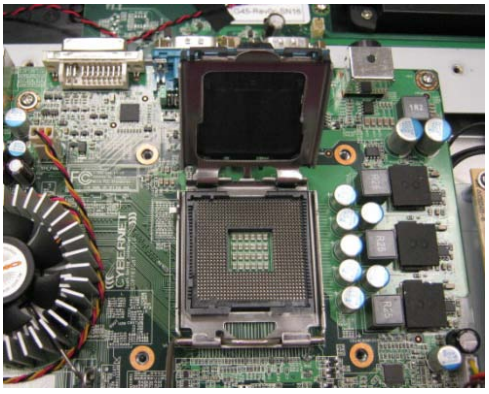
7. First lift the metal shield and slide it to the right clearing the optical drive door (at the top right) then disconnect the system fan cable connector from the motherboard at FAN2 next to the top right corner of the CPU.

Figure 12: Open system

Installing the CPU

NOTE: If you purchased your iONE-GX45 as a turn-key system, you must first follow the instructions to remove the heat sink in order to be able to reach the CPU. Systems purchased as 'bare bones' require the installation of the heat sink which is shipped in the accessories box with the unit.

1. The socket has a plastic cap on it to protect the pins from damage. This should remain in place until actually installing a CPU.



2. Raise the plastic cap to reveal the socket pins and open the cover by pushing down, pulling out and up on the lever beside the CPU socket.

   Note: Do not touch the socket pins to avoid damage.

3. Install the CPU after confirming the direction for correct mating. Be sure to hold the CPU by the edge of the CPU base.

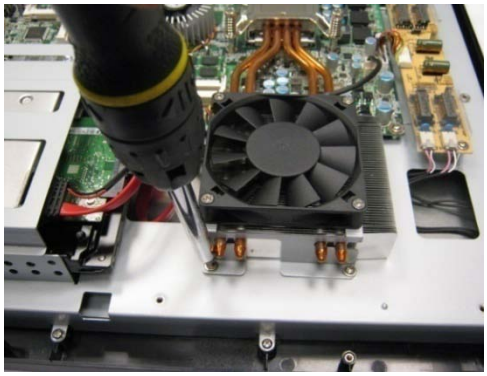
Note: The CPU can only be installed in the correct direction. Make sure the CPU pins are completely embedded into the socket. If not, take out the CPU with vertical motion and reinstall.

4. Close the cover and the lever to complete installation. Replace the heat sink.

NOTE: Any violation of the correct installation procedures may cause permanent damage to your mainboard.

Installing the CPU Heat Sink

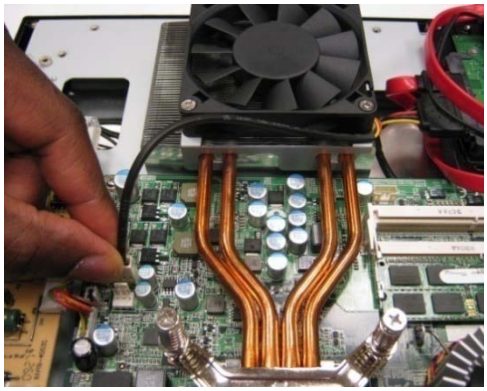
1. Put on the heat sink and make sure that the four screws fit the corresponding screw holes on the mainboard.



2. Alternate pressure while securing the four screws with balance.

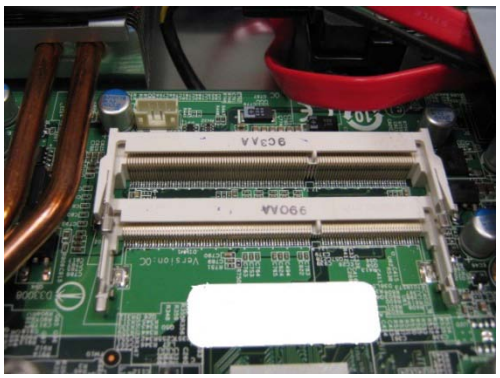
Note: Do not fix any screws until the four screws are in their positions.

3. Secure the two screws at the opposite end near the top edge of the bezel.

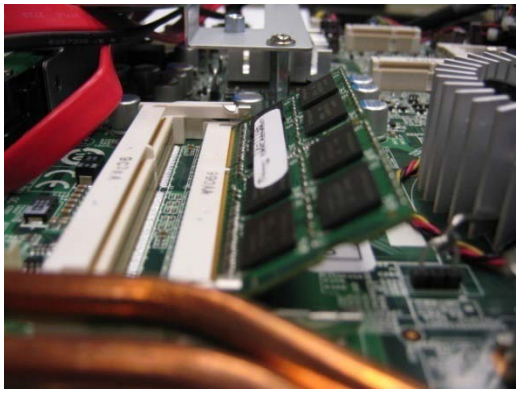


4. Connect the power cable to CPU Fan on the Mainboard labeled FAN 1 CPU FAN.

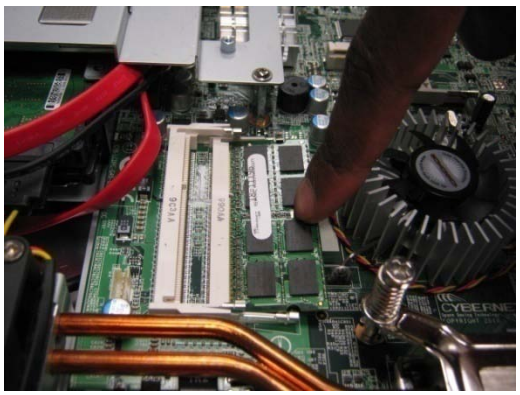
Installing the Memory Module DDR3 SO-DIMM



1. The memory module has only one notch and will only fit in the slot one way.



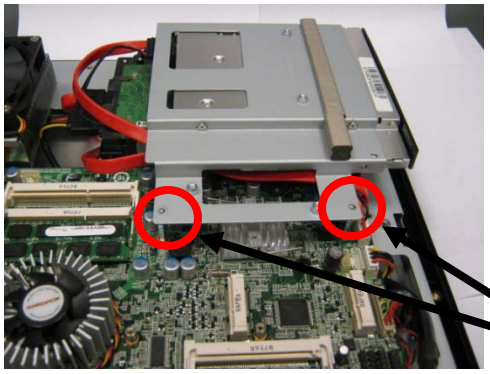
2. Insert the memory module into the DIMM slot at a 45° angle. Then push it in until the golden finger on the memory module is deeply inserted in the DIMM slot.



3. Press the memory module down and the metal clip at each side of the DIMM slot will automatically close.

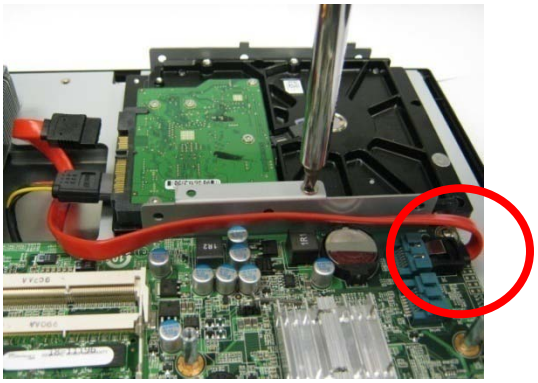
4. Repeat the steps to install another memory module to meet your needs.

Installing the Hard Disk Drive



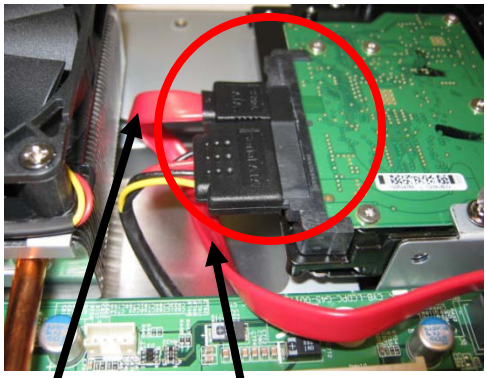
Optical Disk Drive Frame Screws

1. Unscrew the four screws on the Optical Disk Drive frame (2 shown circled, 2 on opposite side) and remove the frame and disconnect the SATA cable from the mainboard and set aside in order to gain access to the Hard Disk Drive slot.



SATA Cable

2. Slide the hard disk drive into the frame and line up the two screw holes accordingly. Secure the two screws on the Hard Disk Drive.
   Connect the SATA cable to the mainboard.



Power Cable **SATA Cable**

3. Connect the other end of the SATA/Power cable to the Hard Disk Drive as shown.

4. Replace the Optical Disk Drive securing the four screws (two screws on the top, two screws on the side) to secure the HDD and complete the installation.

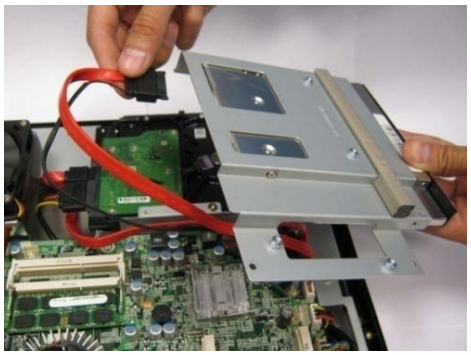
Installing the Optical Disk Drive

1. Remove back bezel as indicated in iONE Disassembly. Remove the Optical Disk Drive frame as indicated in Installing the Hard Disk Drive.

2. Put the ODD on the ODD frame and line up the four screw holes accordingly.

4. Secure the four screws on the ODD frame.

5. Connect the SATA cable. Connect the Power Cable.

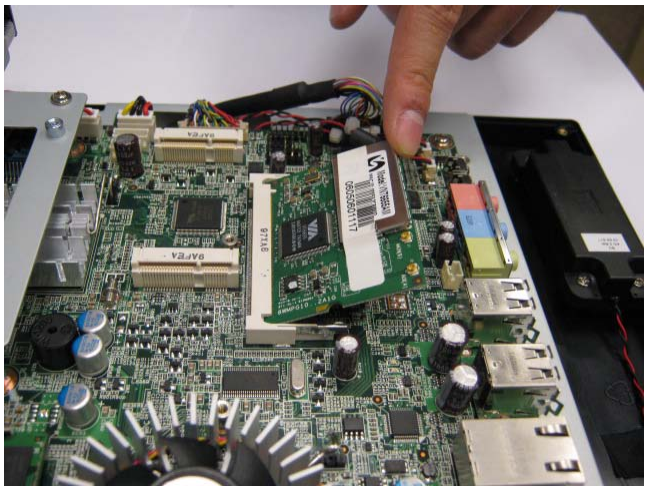


6. Connect the other end of the cable to the ODD.

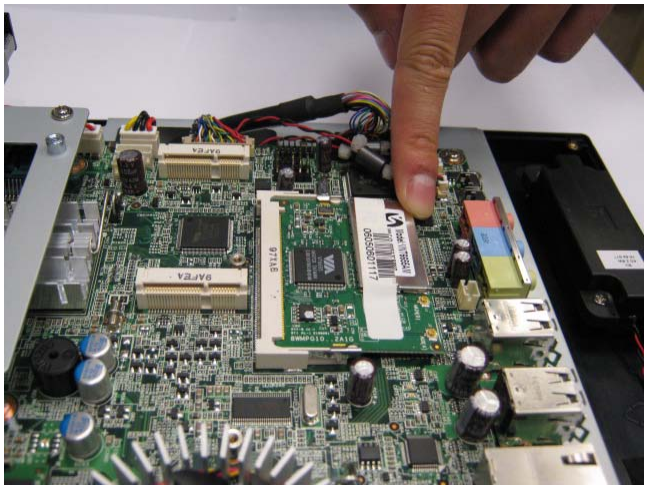
7. Install the ODD frame and line up the two screw holes over the stand-offs on the mainboard as well as the two screw holes on the side of the Hard Disk Drive slot.

8. Secure the four screws to fix the ODD frame and complete the installation.

Installing the Mini-PCI Card (Optional)

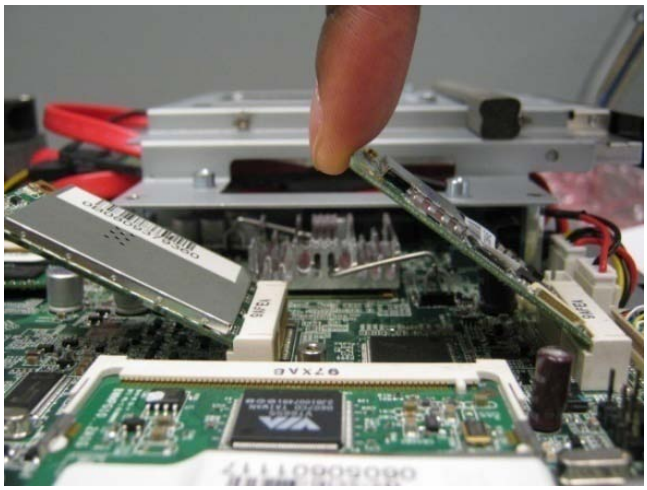


1. The mini-PCI card has only one notch and will only fit in one way. Insert the mini-PCI card into the mini-PCI slot at a 45° angle. Then push it in until the golden finger on the mini-PCI card is deeply inserted in the mini-PCI slot.



2. Press down the mini-PCI card and the metal clip at each side of the mini-PCI slot will automatically close.

Installing the Mini-PCIe Card (Optional)

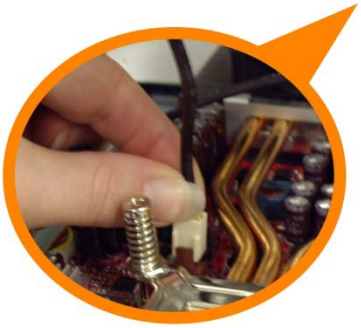


1. The mini-PCIE card has only one notch and will only fit in one way. Insert the mini-PCIe card into the mini-PCIe slot at a 45° angle. Then push it in until the golden finger on the mini-PCIe card is deeply inserted in the mini-PCIe slot.

2. Press down the mini-PCIe card and secure the screw to complete the installation.

Installing the Cover

1. Connect the power cable to System Fan on the mainboard before securing the metal cover with seventeen screws.



2. Secure the plastic cover with eleven screws.

3. Secure the stand with four screws.

Cybernet e-recycling SOP

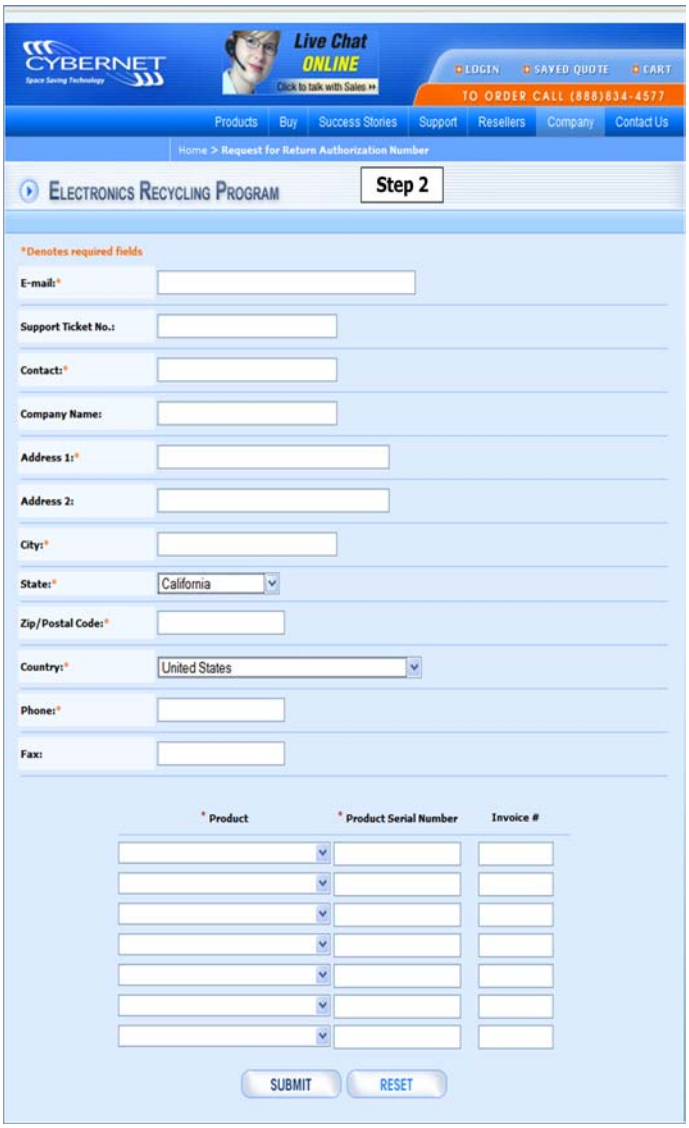
For the recycling of Cybernet Branded Equipment

Customer Notification Steps

1. Client learns of Cybernet Recycling Program via note card included with their ZPC/i-One purchase.
2. Client contacts Cybernet either by phone, email, or support request (pictured).

Step 1

Cybernet's Recycling Program
Helping Save our Environment
Send us your old Computer and if it has monetary value we'll apply that toward a purchase of a new computer!
If your computer doesn't have monetary value, we'll recycle it responsibly.
Step 1: log-on to www.cybernetman.com
Step 2: submit a request for an RMA number
Step 3: we will schedule a pre-paid FedEx pick-up at no cost to you
Please call 888-834-4577 for more details
CYBERNET
Space Saving Technology
5 Holland, Building 201, Irvine, CA 92618



Cybernet e-recycling SOP

For the recycling of Cybernet Branded Equipment

Customer Notification Steps

Steps:
1. Support Rep Enters Back for Recycling as Nature of Problem, enters serial number, then issues ticket
2. Support Rep marks ticket as 'Authorized for RMA;' if speaking with client will verbally confirm Ticket Number. If client has emailed or made request through the website, Support Rep will email Ticket to client.
3. Client will request RMA under Support section of www.cybernetman.com; when prompted ticket number will be entered and Continue clicked.

CYBERNET
Space Saving Technology
Live Chat
ONLINE
Click to talk with Sales
LOGIN
SAVED QUOTE
CART
TO ORDER CALL (888)834-4577
Products
Buy
Success Stories
Support
Resellers
Company
Contact Us
Home > Request for Return Authorization Number
REQUEST FOR RETURN AUTHORIZATION NUMBER
Step 3
RMA requests require a valid ticket number. Please contact Cybernet Manufacturing Tech Support by calling 888-834-4577 and choosing option 2 for Tech Support. Tech Support hours are 8 AM to 5 PM PST Monday-Friday, excluding holidays.
For our international clients or for those outside of the Pacific Time Zone, please click here to open a Support Request. One of our representatives will reply with troubleshooting steps within 1 business day.
We also suggest utilizing our Knowledge Base for troubleshooting tips that may solve your problem without having to send your unit to us.
Ticket No.: 2740
Continue
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Cybernet e-recycling SOP

For the recycling of Cybernet Branded Equipment

Customer Notification Steps

Steps Continued:
4. Client will be taken to RMA Request form; address will be confirmed.
5. Product is not being returned to customer; option defaults to no.
6. Client will click submit button at bottom of page to submit RMA Request.
7. Client's interaction ends with call to action screen; they are to await email with RMA Number, shipping label, and instructions on how to move forward.